

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX08LL40-UNV-M-LFP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33959.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 12/22/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX08LL40-UNV-M-LFP

[LUMINAIRE] PHILIPS APX 4-LP 3.2.1 4000K BOARDS 95W DRIVER MEDIUM OPTICS 10.5K RESISTOR DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 9427 LMS

[TESTDATE] 12/22/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9427
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
Total Luminaire Watts	75.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.08
Spacing Criterion (90-270)	1.18
Spacing Criterion (Diagonal)	1.14
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.27 ft
Luminous Height	0.50 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4264	4011	3751
55	2573	2179	1953
65	1700	1255	1154
75	1141	781	777
85	486	430	519

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73
2.5	5426.46	5427.99	5443.98	5450.34	5456.68	5450.34	5443.98	5427.99	5426.46	5427.99
5.0	5414.20	5415.49	5443.41	5461.26	5465.39	5461.26	5443.41	5415.49	5414.20	5415.49
7.5	5387.89	5393.14	5434.98	5465.48	5477.98	5465.48	5434.98	5393.14	5387.89	5393.14
10.0	5339.35	5358.07	5415.61	5470.46	5482.82	5470.46	5415.61	5358.07	5339.35	5358.07
12.5	5263.20	5299.62	5382.62	5449.41	5473.27	5449.41	5382.62	5299.62	5263.20	5299.62
15.0	5150.64	5208.24	5322.44	5410.45	5434.23	5410.45	5322.44	5208.24	5150.64	5208.24
17.5	4998.03	5077.17	5224.66	5335.94	5368.36	5335.94	5224.66	5077.17	4998.03	5077.17
20.0	4803.35	4903.88	5086.97	5217.50	5257.27	5217.50	5086.97	4903.88	4803.35	4903.88
22.5	4570.13	4688.78	4901.74	5051.00	5093.39	5051.00	4901.74	4688.78	4570.13	4688.78
25.0	4303.60	4433.22	4672.31	4823.71	4865.10	4823.71	4672.31	4433.22	4303.60	4433.22
27.5	4002.30	4146.65	4399.93	4543.25	4577.55	4543.25	4399.93	4146.65	4002.30	4146.65
30.0	3686.10	3837.79	4089.72	4209.28	4227.52	4209.28	4089.72	3837.79	3686.10	3837.79
32.5	3342.51	3510.34	3749.34	3832.56	3845.47	3832.56	3749.34	3510.34	3342.51	3510.34
35.0	2997.62	3167.60	3385.04	3434.50	3439.73	3434.50	3385.04	3167.60	2997.62	3167.60
37.5	2654.97	2818.73	3010.19	3033.41	3024.92	3033.41	3010.19	2818.73	2654.97	2818.73
40.0	2323.24	2476.16	2645.19	2639.35	2618.17	2639.35	2645.19	2476.16	2323.24	2476.16
42.5	2001.45	2144.88	2291.61	2257.47	2230.75	2257.47	2291.61	2144.88	2001.45	2144.88
45.0	1705.71	1834.87	1955.19	1904.70	1872.90	1904.70	1955.19	1834.87	1705.71	1834.87
47.5	1447.72	1553.81	1651.21	1588.87	1559.77	1588.87	1651.21	1553.81	1447.72	1553.81
50.0	1223.26	1307.36	1383.48	1321.85	1294.43	1321.85	1383.48	1307.36	1223.26	1307.36
52.5	1033.09	1096.87	1153.87	1097.11	1070.66	1097.11	1153.87	1096.87	1033.09	1096.87
55.0	872.12	919.16	959.52	908.06	886.41	908.06	959.52	919.16	872.12	919.16
57.5	741.37	773.41	800.96	757.55	740.50	757.55	800.96	773.41	741.37	773.41
60.0	629.74	651.70	671.08	639.70	626.69	639.70	671.08	651.70	629.74	651.70
62.5	535.76	549.32	564.53	544.35	533.29	544.35	564.53	549.32	535.76	549.32
65.0	454.98	462.85	476.66	464.59	455.80	464.59	476.66	462.85	454.98	462.85
67.5	384.78	389.59	403.29	397.86	392.35	397.86	403.29	389.59	384.78	389.59
70.0	322.56	326.14	341.43	342.37	339.06	342.37	341.43	326.14	322.56	326.14
72.5	265.98	269.82	287.88	294.43	292.51	294.43	287.88	269.82	265.98	269.82
75.0	214.78	218.83	240.33	251.87	251.72	251.87	240.33	218.83	214.78	218.83
77.5	166.14	172.16	197.56	213.32	215.57	213.32	197.56	172.16	166.14	172.16
80.0	121.75	130.03	159.40	178.91	182.65	178.91	159.40	130.03	121.75	130.03
82.5	82.11	93.13	125.71	148.24	152.75	148.24	125.71	93.13	82.11	93.13
85.0	50.04	63.07	97.37	120.99	125.94	120.99	63.07	50.04	63.07	97.37
87.5	27.37	42.72	76.83	99.70	104.54	99.70	76.83	42.72	27.37	42.72
90.0	18.46	30.57	60.83	81.12	85.74	81.12	60.83	30.57	18.46	30.57
92.5	17.42	24.93	48.56	65.86	69.98	65.86	48.56	24.93	17.42	24.93
95.0	17.20	23.21	40.57	54.45	58.08	54.45	40.57	23.21	17.20	23.21
97.5	17.18	21.85	36.46	47.22	50.16	47.22	36.46	21.85	17.18	21.85
100.0	17.00	20.53	34.04	43.64	46.12	43.64	34.04	20.53	17.00	20.53
102.5	16.36	19.23	32.16	41.94	44.59	41.94	32.16	19.23	16.36	19.23
105.0	15.49	17.92	30.72	40.98	43.99	40.98	30.72	17.92	15.49	17.92
107.5	14.41	16.61	29.42	39.89	43.26	39.89	29.42	16.61	14.41	16.61
110.0	13.09	15.16	28.04	38.64	42.28	38.64	28.04	15.16	13.09	15.16
112.5	11.65	13.54	26.39	37.19	40.90	37.19	26.39	13.54	11.65	13.54
115.0	10.19	11.87	24.73	35.38	39.10	35.38	24.73	11.87	10.19	11.87
117.5	8.83	10.13	22.94	33.42	37.16	33.42	22.94	10.13	8.83	10.13
120.0	7.54	8.45	21.02	31.44	35.22	31.44	21.02	8.45	7.54	8.45
122.5	6.34	6.95	19.13	29.34	32.95	29.34	19.13	6.95	6.34	6.95
125.0	5.31	5.47	17.22	26.94	30.60	26.94	17.22	5.47	5.31	5.47
127.5	4.35	4.02	15.07	24.85	28.65	24.85	15.07	4.02	4.35	4.02
130.0	3.58	2.99	12.96	22.72	26.36	22.72	12.96	2.99	3.58	2.99
132.5	2.94	2.33	10.87	20.36	23.84	20.36	10.87	2.33	2.94	2.33

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CANDELA TABULATION - (Cont.)

135.0	2.37	1.84	8.90	17.97	21.27	17.97	8.90	1.84	2.37	1.84
137.5	1.83	1.43	6.87	15.49	18.68	15.49	6.87	1.43	1.83	1.43
140.0	1.45	1.04	5.02	13.02	16.06	13.02	5.02	1.04	1.45	1.04
142.5	1.00	0.68	3.44	10.59	13.33	10.59	3.44	0.68	1.00	0.68
145.0	0.68	0.47	2.04	8.36	10.73	8.36	2.04	0.47	0.68	0.47
147.5	0.43	0.23	0.93	6.20	8.30	6.20	0.93	0.23	0.43	0.23
150.0	0.26	0.05	0.26	4.18	6.01	4.18	0.26	0.05	0.26	0.05
152.5	0.15	0.00	0.22	2.56	4.09	2.56	0.22	0.00	0.15	0.00
155.0	0.12	0.10	0.32	1.25	2.38	1.25	0.32	0.10	0.12	0.10
157.5	0.22	0.27	0.36	0.74	1.37	0.74	0.36	0.27	0.22	0.27
160.0	0.37	0.33	0.43	0.69	0.97	0.69	0.43	0.33	0.37	0.33
162.5	0.55	0.52	0.54	0.67	0.95	0.67	0.54	0.52	0.55	0.52
165.0	0.60	0.58	0.61	0.78	0.91	0.78	0.61	0.58	0.60	0.58
167.5	0.58	0.57	0.60	0.80	0.89	0.80	0.60	0.57	0.58	0.57
170.0	0.64	0.66	0.70	0.84	0.97	0.84	0.70	0.66	0.64	0.66
172.5	0.90	0.85	0.83	0.97	1.10	0.97	0.83	0.85	0.90	0.85
175.0	1.04	1.02	1.03	1.06	1.22	1.06	1.03	1.02	1.04	1.02
177.5	1.16	1.16	1.00	1.12	1.20	1.12	1.00	1.16	1.16	1.16
180.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13

**Vert.
Angles**

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73	5442.73
2.5	5443.98	5450.34	5456.68	5450.34	5443.98	5427.99	5426.46
5.0	5443.41	5461.26	5465.39	5461.26	5443.41	5415.49	5414.20
7.5	5434.98	5465.48	5477.98	5465.48	5434.98	5393.14	5387.89
10.0	5415.61	5470.46	5482.82	5470.46	5415.61	5358.07	5339.35
12.5	5382.62	5449.41	5473.27	5449.41	5382.62	5299.62	5263.20
15.0	5322.44	5410.45	5434.23	5410.45	5322.44	5208.24	5150.64
17.5	5224.66	5335.94	5368.36	5335.94	5224.66	5077.17	4998.03
20.0	5086.97	5217.50	5257.27	5217.50	5086.97	4903.88	4803.35
22.5	4901.74	5051.00	5093.39	5051.00	4901.74	4688.78	4570.13
25.0	4672.31	4823.71	4865.10	4823.71	4672.31	4433.22	4303.60
27.5	4399.93	4543.25	4577.55	4543.25	4399.93	4146.65	4002.30
30.0	4089.72	4209.28	4227.52	4209.28	4089.72	3837.79	3686.10
32.5	3749.34	3832.56	3845.47	3832.56	3749.34	3510.34	3342.51
35.0	3385.04	3434.50	3439.73	3434.50	3385.04	3167.60	2997.62
37.5	3010.19	3033.41	3024.92	3033.41	3010.19	2818.73	2654.97
40.0	2645.19	2639.35	2618.17	2639.35	2645.19	2476.16	2323.24
42.5	2291.61	2257.47	2230.75	2257.47	2291.61	2144.88	2001.45
45.0	1955.19	1904.70	1872.90	1904.70	1955.19	1834.87	1705.71
47.5	1651.21	1588.87	1559.77	1588.87	1651.21	1553.81	1447.72
50.0	1383.48	1321.85	1294.43	1321.85	1383.48	1307.36	1223.26
52.5	1153.87	1097.11	1070.66	1097.11	1153.87	1096.87	1033.09
55.0	959.52	908.06	886.41	908.06	959.52	919.16	872.12
57.5	800.96	757.55	740.50	757.55	800.96	773.41	741.37
60.0	671.08	639.70	626.69	639.70	671.08	651.70	629.74
62.5	564.53	544.35	533.29	544.35	564.53	549.32	535.76
65.0	476.66	464.59	455.80	464.59	476.66	462.85	454.98
67.5	403.29	397.86	392.35	397.86	403.29	389.59	384.78
70.0	341.43	342.37	339.06	342.37	341.43	326.14	322.56
72.5	287.88	294.43	292.51	294.43	287.88	269.82	265.98
75.0	240.33	251.87	251.72	251.87	240.33	218.83	214.78
77.5	197.56	213.32	215.57	213.32	197.56	172.16	166.14
80.0	159.40	178.91	182.65	178.91	159.40	130.03	121.75

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CANDELA TABULATION - (Cont.)

82.5	125.71	148.24	152.75	148.24	125.71	93.13	82.11
85.0	97.37	120.99	125.94	120.99	97.37	63.07	50.04
87.5	76.83	99.70	104.54	99.70	76.83	42.72	27.37
90.0	60.83	81.12	85.74	81.12	60.83	30.57	18.46
92.5	48.56	65.86	69.98	65.86	48.56	24.93	17.42
95.0	40.57	54.45	58.08	54.45	40.57	23.21	17.20
97.5	36.46	47.22	50.16	47.22	36.46	21.85	17.18
100.0	34.04	43.64	46.12	43.64	34.04	20.53	17.00
102.5	32.16	41.94	44.59	41.94	32.16	19.23	16.36
105.0	30.72	40.98	43.99	40.98	30.72	17.92	15.49
107.5	29.42	39.89	43.26	39.89	29.42	16.61	14.41
110.0	28.04	38.64	42.28	38.64	28.04	15.16	13.09
112.5	26.39	37.19	40.90	37.19	26.39	13.54	11.65
115.0	24.73	35.38	39.10	35.38	24.73	11.87	10.19
117.5	22.94	33.42	37.16	33.42	22.94	10.13	8.83
120.0	21.02	31.44	35.22	31.44	21.02	8.45	7.54
122.5	19.13	29.34	32.95	29.34	19.13	6.95	6.34
125.0	17.22	26.94	30.60	26.94	17.22	5.47	5.31
127.5	15.07	24.85	28.65	24.85	15.07	4.02	4.35
130.0	12.96	22.72	26.36	22.72	12.96	2.99	3.58
132.5	10.87	20.36	23.84	20.36	10.87	2.33	2.94
135.0	8.90	17.97	21.27	17.97	8.90	1.84	2.37
137.5	6.87	15.49	18.68	15.49	6.87	1.43	1.83
140.0	5.02	13.02	16.06	13.02	5.02	1.04	1.45
142.5	3.44	10.59	13.33	10.59	3.44	0.68	1.00
145.0	2.04	8.36	10.73	8.36	2.04	0.47	0.68
147.5	0.93	6.20	8.30	6.20	0.93	0.23	0.43
150.0	0.26	4.18	6.01	4.18	0.26	0.05	0.26
152.5	0.22	2.56	4.09	2.56	0.22	0.00	0.15
155.0	0.32	1.25	2.38	1.25	0.32	0.10	0.12
157.5	0.36	0.74	1.37	0.74	0.36	0.27	0.22
160.0	0.43	0.69	0.97	0.69	0.43	0.33	0.37
162.5	0.54	0.67	0.95	0.67	0.54	0.52	0.55
165.0	0.61	0.78	0.91	0.78	0.61	0.58	0.60
167.5	0.60	0.80	0.89	0.80	0.60	0.57	0.58
170.0	0.70	0.84	0.97	0.84	0.70	0.66	0.64
172.5	0.83	0.97	1.10	0.97	0.83	0.85	0.90
175.0	1.03	1.06	1.22	1.06	1.03	1.02	1.04
177.5	1.00	1.12	1.20	1.12	1.00	1.16	1.16
180.0	1.13	1.13	1.13	1.13	1.13	1.13	1.13

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2010.51	N.A.	21.30
0-30	4123.67	N.A.	43.70
0-40	6176.96	N.A.	65.50
0-60	8471.74	N.A.	89.90
0-80	9193.65	N.A.	97.50
0-90	9300.01	N.A.	98.70
10-90	8781.56	N.A.	93.20
20-40	4166.45	N.A.	44.20
20-50	5621.96	N.A.	59.60
40-70	2764.14	N.A.	29.30
60-80	721.91	N.A.	7.70
70-80	252.55	N.A.	2.70
80-90	106.36	N.A.	1.10
90-110	76.31	N.A.	0.80
90-120	100.26	N.A.	1.10
90-130	115.53	N.A.	1.20
90-150	126.18	N.A.	1.30
90-180	126.90	N.A.	1.30
110-180	50.59	N.A.	0.50
0-180	9426.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	518.45
10-20	1492.06
20-30	2113.15
30-40	2053.3
40-50	1455.52
50-60	839.26
60-70	469.36
70-80	252.55
80-90	106.36
90-100	44.72
100-110	31.60
110-120	23.95
120-130	15.26
130-140	7.92
140-150	2.73
150-160	0.45
160-170	0.18
170-180	0.09

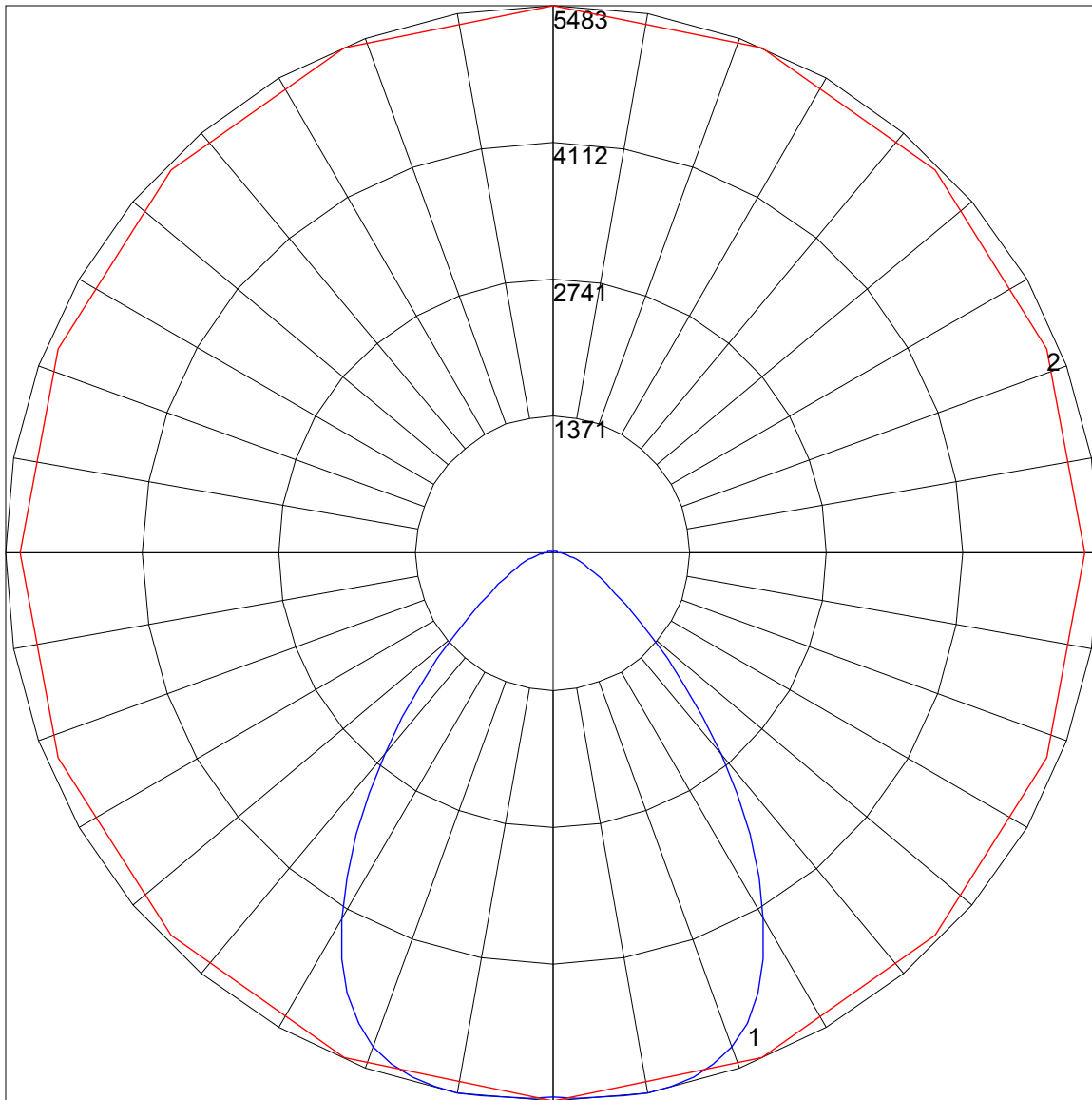
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	111	107	104	100	108	105	102	99	100	98	95	96	94	92	92	91	89	87
2	103	96	91	86	100	94	89	85	91	87	83	87	84	81	84	82	79	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	73	70	68
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	66	63	61
5	83	72	65	59	81	71	64	59	69	63	58	67	62	57	65	60	57	55
6	78	66	59	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	52	45	40	51	44	40	49	44	40	48	43	39	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

POLAR GRAPH



Maximum Candela = 5482.82 Located At Horizontal Angle = 90, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)